

wirelessly charge both the accessory apparatus **200** and the mobile device **100** mounted on (attached to) the accessory apparatus **200**.

[0299] It can be seen that the method of the present disclosure may be implemented as program instructions, which can be stored in a computer-readable storage medium and can be executed through various computing means. The computer-readable storage medium may store program instructions, data files, data structures, or a combination thereof. Such software may be stored in a volatile or non-volatile storage medium such as a ROM, a memory such as a RAM, a memory chip, a memory device, or a memory IC, or a recordable optical or magnetic medium such as a compact disc (CD), a digital versatile disc (DVD), a magnetic disk, or a magnetic tape, regardless of its ability to be erased or re-recorded.

[0300] It can be seen that the memory of a mobile device is an example of a machine-readable storage medium which is suitable for storing a program or programs including instructions for implementing the embodiment of the present disclosure. The program or programs stored in such a storage medium may be specially designed for the present disclosure or be known to those skilled in the art.

[0301] In a feature of the present disclosure, there is provided a wireless charging accessory apparatus that is electrically connected with a mobile device through a wired connection and is capable of wirelessly charging a wearable device or electronic device placed on the front cover thereof.

[0302] In one embodiment, there is provided a wireless charging accessory apparatus that is electrically connected with the battery of a mobile device accommodated in the rear cover thereof and is capable of wirelessly charging a wearable device or electronic device placed on the front cover connected with the rear cover through a coupling member.

[0303] In one embodiment, there is provided a wireless charging accessory apparatus that is capable of drawing power wirelessly from a mobile device and wirelessly charging a wearable device or electronic device placed on the front cover thereof.

[0304] In one embodiment, there is provided a wireless charging accessory apparatus that is capable of drawing power wirelessly from the transmission coil of a mobile device accommodated in the rear cover thereof and wirelessly charging a wearable device or electronic device placed on the front cover connected with the rear cover through a coupling member.

[0305] In one embodiment, there is provided a wireless charging accessory apparatus that is capable of drawing power wiredly or wirelessly from a mobile device and wirelessly charging a wearable device or electronic device placed on the front cover thereof.

[0306] While the present disclosure has been shown and described with reference to various embodiments thereof, it will be understood by those skilled in the art that various changes in form and details may be made therein without departing from the spirit and scope of the present disclosure as defined by the appended claims and their equivalents.

What is claimed is:

1. An accessory apparatus for wirelessly charging an external device, the accessory apparatus comprising:

- a front cover;
- a rear cover configured to accommodate a mobile device;
- a coupling member configured to link the front cover to the rear cover;
- a wireless power control processor;
- a connector configured to electrically connect the accessory apparatus to the mobile device;
- a direct current-alternating current (DC-AC) converter configured to convert DC power from the connector into AC power; and
- a transmission coil configured to wirelessly transmit power through magnetic fields generated by the AC power,

wherein the wireless power control processor, the DC-AC converter, and the transmission coil are arranged in the front cover.

2. The accessory apparatus of claim 1, wherein the transmission coil is further arranged in the front cover to wirelessly transmit the magnetic fields towards the external device.

3. The accessory apparatus of claim 1, wherein the transmission coil is further arranged in the front cover to wirelessly transmit the magnetic fields towards the external device through at least one of an outside of the front cover or an inside of the front cover.

4. The accessory apparatus of claim 1, wherein the connector is further configured to electrically connect to a battery of the mobile device, and wherein the connection is placed in the rear cover.

5. The accessory apparatus of claim 1, wherein the connector is further configured to electrically connect to a complementary connector of the mobile device when the rear cover accommodates the mobile device.

6. The accessory apparatus of claim 1, wherein the connector is further configured to electrically connect to a complementary connector of the mobile device, and

wherein the connection is further configured to rotate at a preset angle relative to the rear cover to electrically connect to the connector of the mobile device when the rear cover does not accommodate the mobile device and when the rear cover accommodates the mobile device.

7. The accessory apparatus of claim 1, wherein the front cover further comprises a transparent region, and

wherein at least one of the wireless power control processor, DC-AC converter, or transmission coil is arranged in a region other than the transparent region.

8. The accessory apparatus of claim 1, further comprising: a magnetic shield member in the front cover, wherein the magnetic shield member is placed adjacent to the transmission coil in accordance with the direction of wireless transmission of the magnetic fields.

9. The accessory apparatus of claim 8, wherein the magnetic shield member is placed under the transmission coil when the direction of wireless transmission of the magnetic fields is toward the outside of the front cover, and